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see pages 6-8



OIIPE

RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/10/016,349A

TIME: 12:38:33

Input Set : A:\dex-243.ST25.txt

Output Set: N:\CRF3\06032002\J016349A.raw

3 <110> APPLICANT: Recipon, Herve
 4 Sun, Yongming
 5 Chen, Sei-Yu
 6 Liu, Chenghua
 7 Turner, Leah
 9 <120> TITLE OF INVENTION: Compositions and Methods relating to Lung Specific Genes and
 Proteins
 11 <130> FILE REFERENCE: DEX-0243
 13 <140> CURRENT APPLICATION NUMBER: US/10/016,349A
 14 <141> CURRENT FILING DATE: 2001-10-26
 16 <150> PRIOR APPLICATION NUMBER: US 60/243,459
 17 <151> PRIOR FILING DATE: 2000-10-26
 19 <160> NUMBER OF SEQ ID NOS: 244
 21 <170> SOFTWARE: PatentIn version 3.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 2368
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Homo sapiens
 28 <400> SEQUENCE: 1
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 31 ggccgagaag cagctgggct gagctgctaa aagcacagag accggggcca gactcctcag 120
 33 cctgaaatcc tgcctccact aagtaccagc tgggtaactt caggtggagc ccagttgaca 180
 35 ggaaatgttt ctccagaagc tgaaaagctg cctggtaaag gcctttcata aaatgggtctg 240
 37 cgtttgggac caggaagaca gaagactcct caagaagaga actggaacct taaccactt 300
 39 cagacttctt catgtctgaa gcttatttcc accatcccat tgagaaccaa agaagcgagc 360
 41 tccttggaga atcggtccc acctggacct tctgtttatc ctccaatag ctgctgcatt 420
 43 catccttccc agctaattgac acttccagcc ttctgtgttt caaagtatca cggactttgc 480
 45 aaaagattcc aggtttctat ggagcagata gtacttttaa caatcaacat gtgcattatt 540
 47 atttcctcct aaggcatact tagacatcaa tgcattgtac agcaaggcaa cttatctcac 600
 49 cctcaccaag gtatgaactt cagaatttga acttgttcct ttggggtaag ttgtatcacc 660
 51 agcactcaat aacagactgt attttccagt gaggtttcat tctgtttcag atattctgca 720
 53 ctttcagtgg caaaatttta aagaaaagga gacaaaatgg aacacaaatt caatatgact 780
 55 attgtcatcc ttccctccca ggaagtgtag gaatcatcca aagtggtaaa agagcagcgc 840
 57 ttctaaactc tgacttcaca tggaaaataa cgcgactact aaaactgata acaatagcag 900
 59 tccatgccat ttgacagggg tgtgtaggag aggtgggtgag caagctgaaa tcccttcagg 960
 61 tatttgcaga acttctgagc aaaagctaaa gctaaaatta acattaaata tgcaaagtat 1020
 63 ttttaaccca acataaatta acaatgttcc tatttcaatt ctattgctct tgggatgact 1080
 65 atgtcctttg gaaaatgttt aaataactta agatttccgt catgagttaa ctatttcaaa 1140
 67 acttattttt ttaactgcaa gatacctttt tatgttacca ggagtgttac cagctagctg 1200
 69 ccaaaacctg gttgaagttc tccacttta tattgtaaat gattacatag tttattagta 1260
 71 attgtgtccc ctgtccaccc actggtccat ttggatggga aaattttcaa aataacttca 1320
 73 taagaaaatg ataagaaaaa tgtggtcacc ggtatcatga ggaacttcca gacagctcag 1380
 75 cacagaaaag ttggttttaa agtcctcgaa aacgttactg gtaatgagct tccactcctt 1440
 77 tagtcgttgt gcatagatac accacagagt aaggttataa aaataaaagt tgtttcagga 1500

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81 taggaatgag ggacctgctg gaagagtgat cacaatatcc aaaggaaatt taaaatgcct 1620
83 gttgaaagtg acacactgac tcagcattgt cactaacaca gaatcaccac aataaaaactg 1680
85 ccctgccctg tggctcctgg cacctcatgt ctcttttaggt taagcagaga gaggtctgtg 1740
87 ttgctttgga acaaggtgca gcctccccct aagctacaga gaggtctga gcaaggacca 1800
89 gccccagggt tgcagccttg cccaccctcc acaggctcca gagcagatgg ggtggctcta 1860
91 gagagcaaat ggtcaaaact tctagcgcta aatagagctt taacatgtct cagatactag 1920
93 caaaatagag aagcctcaga tggctttagg tctggaagtg tgttgctaaa aatgctaaaa 1980
95 atttaacaaa cttttataaa tccttaagag atctttttca gttttctgaa gtaccgttaa 2040
97 ttgccccagt gtttcaactt gcagacaggc aagaatttgg ctttgatgtg ttaaaaaatat 2100
99 gtacatcttg gttcataatg atgatttatt tccaaaatgg tgactcatac taggattaca 2160
101 tataaaacat catatgtggg ccttatatgt aataatgtgt aagtatagta tattaattac 2220
103 tctgacataa catgggcaga gatttgtatt aatttatttc tatttcatct aatcaatatt 2280
105 ttacttaagt ctaaaacctt atatatatat tgacatgtat catcgtatat ataaacattg 2340
107 tatctattga actgagcaat ctgtagtt 2368
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118 ggccgagaag cagctgggct gagctgctaa aagcacagag accggggcca gactcctcag 120
120 cctgaaatcc tgcttccact aagtaccagc tgggtaactt caggtggagc ccagttgaca 180
122 ggaaatgttt ctccagaagc tgaaaagctg cctggtaaaag gcctttcata aaatggctctg 240
124 cgtttgggac caggaagaca gaagactcct caagaagaga actggaacct taaccactt 300
126 cagacttctt catgtctgaa gcttatttcc accatcccat tgagaaccaa agaagcgagc 360
128 tccttggaga atcggtctcc ccctggacct tctgtttatc cttccaatag ctgctgcatt 420
130 catccttccc agctaattgac acttccagcc tttcgtgttt caaagtatca cggactttgc 480
132 aaaagattcc aggtttctat ggagcagata gtacttttaa caatcaacat gtgcattatt 540
134 atttctcctt aaggcatact tagacatcaa tgcattgtac agcaaggcaa cttatctcac 600
136 cctcaccaag gtatgaactt cagaatttga acttgttcct ttggggtaag ttgtatcacc 660
138 agcactcact aacagactgt attttccagt gaggtttcat tctgtttcag atattctgca 720
140 ctttcagtgg caaaatttta aagaaaagga gacaaaatgg aacacaaatt caatatgact 780
142 attgtcatcc ttccctccca ggaagtgtag gaatcatcca aagtggtaaa agagcagcgc 840
144 ttctaaactc tgacttcaca tggaaaataa cgcgactact aaaactgata acaatagcag 900
146 tccatgccat ttgacagggg tgtgtaggag aggtgggtgag caagctgaaa tcccttcagg 960
148 tatttgcaga acttctgagc aaaagctaaa gctaaaatta acattaaata tgcaaagtat 1020
150 ttttaaccca acataaatta acaatgttcc tatttcaatt ctattgctct tgggatgact 1080
152 atgtcctttg gaaaatgttt aaataactta agatttccgt catgagttta ctatttcaaa 1140
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156 ccaaaacctg gttgaagttc toccaattta tattgtaaat gattacatag tttattagta 1260
158 attgtgtccc ctgtccacc cctgggtccat ttggatggga aaattttcaa aataacttca 1320
160 taagaaaatg ataagaaaaa tgtggtcacc ggtatcatga ggaacttcca gacagctcag 1380
162 cacagaaaag ttggttttta agtcctcgaa aacgttactg gtaatgagct tccactcctt 1440
164 tagtcgttgt gcatagatac accacagagt aaggttataa aaataaaaagt tgtttcagga 1500
166 aatttcccat tgctttatta catgatcaat gagagtaaag agaaatggaa gttgacggga 1560
168 taggaatgag ggacctgctg gaagagtgat cacaatatcc aaaggaaatt taaaatgcct 1620
170 gttgaaagtg acacactgac tcagcattgt cactaacaca gaatcaccac aataaaaactg 1680
172 ccctgccctg tggctcctgg cacctcatgt ctcttttaggt taagcagaga gaggtctgtg 1740

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178 gagagcaaat ggtcaaaact tctagcgcta aatagagctt taacatgtct cagatactag 1920
180 caaaatagag aagcctcaga tggtcttagg tctggaagtg tgttgctaaa aatgctaaaa 1980
182 atttaacaaa cttttataaa tccttaagag atctttttca gttttctgaa gtaccgttaa 2040
184 ttgcccatgt gtttcaactt gcagacaggc aagaatttgg ctttgtatgt ttaaaaatat 2100
186 gtacatcttg gttcataatg atgatttatt tccaaaatgg tgactcatac taggattaca 2160
188 tataaaacat catatgtggg ccttatatgt aataatgtgt aagtatagta tattaattac 2220
190 tctgacataa catgggcaga gatttgtatt aatttatttc tatttcatct aatcaatatt 2280
192 ttactttaagt ctaaaacctt atatatatat tgacatgtat catcgtatat ataaacattg 2340
194 tatctattga actgagcaat ctgtagttta ttttaaatc tgatacatta aagatgtgga 2400
196 gaactacatg aaaaaaaaaa aaaaaaaaaa actgcgg 2437
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200 <211> LENGTH: 439
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
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206 <222> LOCATION: (100)..(100)
207 <223> OTHER INFORMATION: n = a, c, g or t
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211 <221> NAME/KEY: misc_feature
212 <222> LOCATION: (103)..(104)
213 <223> OTHER INFORMATION: n = a, c, g or t
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W--> 219 gtttcttact gaaaataggg caatttaaag aataaaagan agnnaaacca tagtaattct 120
221 actaaccaga ggttactatt gataatgcct ttttgtgtat atcctgtatt tgttttccta 180
223 tttaacaacac atcatctata atgtgtgatt tatagccttt taatttaata gaactaagat 240
225 tgtactgagc atagtatcga ttaccctgcc tttttcactg caatgtctcc catccttcaa 300
227 agggcccccac tggcaaccag tctgtgttgg ctttcaggcg gagaaggcat atctggggca 360
229 cttgatatgc acttgacta ccactgggtc ccagttttct atgagggtatc tataatcagat 420
231 catggctaaa atgagtggg 439
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235 <211> LENGTH: 824
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
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246 <221> NAME/KEY: misc_feature
247 <222> LOCATION: (103)..(104)
248 <223> OTHER INFORMATION: n = a, c, g or t
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W--> 254 gtttcttact gaaaataggg caatttaaag aataaaagan agnnaaacca tagtaattct 120
256 actaaccaga ggttactatt gataatgcct ttttgtgtat atcctgtatt tgttttccta 180

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258 tttacaacac atcatctata atgtggtatt tatagccttt taatttaata gaactaagat      240
260 tgtactgagc atagtatcga ttaccctgcc tttttcactg caatgtctcc catccttcaa      300
262 agggcccccac tggcaaccag tctgtgttgg ctttcaggcg gagaaggcat atctggggca      360
264 cttgatatgc acttgcaacta ccactgggtc ccagttttct atgaggatc tatatcagat      420
266 catggctaaa atgagtggga attgcttggc aaattttgtg ttgtttttat ctttatattt      480
268 gcacatactg aataaaagata attttaatcc tggggaagag gtagaacaaa tctcatgatt      540
270 ttagttttct ctgttagtat tgcacgacat aagcaccaga gagatgactt ttttcctcct      600
272 ttggttcatt tgtattttac ttgtcctatt ccaaaagaac agtattcgaa atgagacaca      660
274 ggtatcaata aggaaaattt ccagagccag aacgaaggaa ggaactgtca gggacaattt      720
276 agtgtgatgg gaaactatgt tatgcttcct cagaaagtat gacaaatatg ttacatttac      780
278 ttgagtttct ggaaactgca catgagggat atagcattaa tttc                        824
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282 <211> LENGTH: 313
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284 <213> ORGANISM: Homo sapiens
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288 <222> LOCATION: (131)..(153)
289 <223> OTHER INFORMATION: n = a, c, g or t
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W--> 297 aaggttgctc nnnnnnnnnn nnnnnnnnnn nnnnaattacc aagcaacagt ataaaaaggt      180
299 ggtaccacct gagagggtgat tagaccatga gcgctccacc ccccatggag gggagggtgcg      240
301 attcatgctg ttataaaagg gctagctggg ctcccttttc cgttactgcc ttctgacct      300
303 tgatgacgca gca                        313
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307 <211> LENGTH: 131
308 <212> TYPE: DNA
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 6
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316 ccataacctga g                        131
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326 <222> LOCATION: (305)..(305)
327 <223> OTHER INFORMATION: n = a, c, g or t
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333 aacattcact gcgccagcc gagtggtttc ttttcacatc aagtacaaga tgcacctga      120
335 aaaaaaagtc atgttattac cgcattttgt gaattcagac atgcattgac tatttactct      180
337 gtgccatgta gttttctcca ccagtgagg agatgttatt atcccatttt tacacatgat      240
339 gaaactgaga ccagaaaatt ttaaacaggc caggcctggg gggtcacccc gtaaccccaa      300
W--> 341 ggcangagta tcgctagagt ccaggagtgc ggg                        333

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Input Set : A:\dex-243.ST25.txt

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352 agggatggaa tgttgtatatt ccttctactg atgtttccat aaactccagt ttattgtgtg      120
354 acaatctatt ttcaaaatatt gtagtcatac ctacttgaat ataagggtggg actcaacaaa      180
356 ggcaacacaa ctgactttgt atgtccccta aaggagggtg gtagatctct aagagatata      240
358 cttaagtggg ggagaaactg atttcatttg ttctatttct caaaagttat ttcttaaaat      300
360 ctgagtcagt gtttaatttt gcgtttaatt cttgcttgaa gaaacaaaca tcaggatgct      360
362 aaactcagtc cttgctgctg ctgcctcatt gactaagctg gccaggcac agcatgtcac      420
364 ctcggtgtac ctttcccagt ttattatggt aggatggcag aaatcatttt cctcaaaatg      480
366 aggatgtgaa aggcaattat taaacttaag taaagtgatt tctaattttac tg          532
369 <210> SEQ ID NO: 9
370 <211> LENGTH: 705
371 <212> TYPE: DNA
372 <213> ORGANISM: Homo sapiens
374 <220> FEATURE:
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376 <222> LOCATION: (656)..(657)
377 <223> OTHER INFORMATION: n = a, c, g or t
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383 gagtggcaag cataagtaga taatacacat gacaaattat cctgagttgc aagtaaatga      120
385 tctctgtaaa gggatggaat gttgtatttc cttctactga tgtttccata aactccagtt      180
387 tatttgttga caatctattt tcaaaatttg tagtcatacc tacttgaata taagggtggga      240
389 ctcaacaaag gcaacacaaac tgactttgta tgtcccctaa agggaggctg tagatctcta      300
391 agagatatac ttaagtgggt gagaaaactga tttcattttg tctattttctc aaaaagttatt      360
393 tcttaaaaatc tgagtcagtg ttttaatttt cggttaattc ttgcttgaag aaacaaacat      420
395 caggatgcta aactcagtc ttgctgctgc tgcctcattg actaagctgg cccaggcaca      480
397 gcatgtcacc tcggtgtacc tttcccagtt tattatgtta ggatggcaga aatcattttc      540
399 ctcaaaatga ggatgtgaaa ggcacttatt aaacttaagt aaagtgattt ctaattttact      600
W--> 401 gaaagagaaa ccgggagaga aaaagttata gcgatattta ctaagacagg taattnnaga      660
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407 <211> LENGTH: 605
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409 <213> ORGANISM: Homo sapiens
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412 <221> NAME/KEY: misc_feature
413 <222> LOCATION: (378)..(378)
414 <223> OTHER INFORMATION: n = a, c, g or t
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418 <221> NAME/KEY: misc_feature
419 <222> LOCATION: (468)..(468)
420 <223> OTHER INFORMATION: n = a, c, g or t
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424 <221> NAME/KEY: misc_feature

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 100,103,104
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Seq#:5; N Pos. 146,147,148,149,150,151,152,153
Seq#:7; N Pos. 305
Seq#:9; N Pos. 656,657
Seq#:10; N Pos. 378,468,514,560
Seq#:11; N Pos. 759,849,895,941
Seq#:13; N Pos. 218,324,389
Seq#:15; N Pos. 30
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Seq#:16; N Pos. 203,204,205,206,207,208,209,210,211,212,346,394
Seq#:17; N Pos. 616
Seq#:18; N Pos. 14,171,339
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Seq#:45; N Pos. 115,160,196,197,205,206,209,213,214,234,238,243,255,259,269
Seq#:46; N Pos. 93,700
Seq#:47; N Pos. 94
Seq#:50; N Pos. 35,153
Seq#:51; N Pos. 388,404
Seq#:57; N Pos. 76,79,80,84,89,93,97,183,279

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Input Set : A:\dex-243.ST25.txt
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Seq#:58; N Pos. 90,91,92,93,94,95,96,97,98,99,100,101,102,103,104,105,106
Seq#:58; N Pos. 107,108,109,110,111,112,113,114,115,116,117,118,119,120,121
Seq#:58; N Pos. 122,123,124,125,126,127,128,129,130,131,132,133,134,135,136
Seq#:58; N Pos. 137,138,139,140,141,142,143,144,145,146,147,148,149,150,151
Seq#:58; N Pos. 152,153,154,155,156,157,158,159,160,161,162,163,164,165,166
Seq#:63; N Pos. 649
Seq#:64; N Pos. 184,187,189
Seq#:68; N Pos. 6,8,74,91,228,231,236,245,313,324,406,414,415,420,421,439
Seq#:69; N Pos. 306,307
Seq#:70; N Pos. 36,91,164,165
Seq#:72; N Pos. 178
Seq#:73; N Pos. 407,411,414,421,695,698
Seq#:74; N Pos. 242,243,310,314
Seq#:83; N Pos. 350
Seq#:87; N Pos. 162,163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:87; N Pos. 177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:87; N Pos. 192,193,194,195,196,197,198,199,200,201,202,203,204,205,206
Seq#:87; N Pos. 207,208,209,210,211,212,213,214,215,216,217,218,219,220,221
Seq#:87; N Pos. 222,223,224,225,226,227,228,229,230,231,232,233,234,235,236
Seq#:87; N Pos. 237,238,239,240,241,242,243,244,245,246
Seq#:88; N Pos. 251,254,266,269,273,274,277
Seq#:89; N Pos. 112
Seq#:90; N Pos. 286
Seq#:91; N Pos. 5,22
Seq#:93; N Pos. 243,329
Seq#:95; N Pos. 574
Seq#:99; N Pos. 386,387,388,389,390,391,392,393,394,395,396,397,398,399,400
Seq#:99; N Pos. 401,402,403,404,405,406,407,408,409,410,411,412,413,414,415
Seq#:99; N Pos. 416,417,418,419,420,421,422,423,424,425,426,427,428,429,430
Seq#:99; N Pos. 431,432,433,434,435,436,437,438,439,440,441,442,443,444,445
Seq#:99; N Pos. 446,447,448,449,450,451,452,453,454,455,456,457,458,459,460
Seq#:99; N Pos. 461,462,463,464,465,466,467,468,469,470,471,472,473,474,475
Seq#:99; N Pos. 476,477,478,479,480,481,482,483,484,485,486,487,488,489,490
Seq#:99; N Pos. 491,492,493,494,495,496,497,498,499,500,501,502,503,504,505
Seq#:99; N Pos. 506,507,508,509,510,511,512,513,514,515,516,517,518,519,520
Seq#:99; N Pos. 521,522
Seq#:100; N Pos. 309,409,698
Seq#:103; N Pos. 543,725
Seq#:104; N Pos. 6
Seq#:105; N Pos. 193
Seq#:107; N Pos. 428,446
Seq#:109; N Pos. 312,385,419,506,517,518
Seq#:116; N Pos. 510
Seq#:118; N Pos. 1324
Seq#:120; N Pos. 318,465
Seq#:123; N Pos. 79
Seq#:124; N Pos. 370
Seq#:128; N Pos. 551

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Seq#:130; N Pos. 328,418,432
Seq#:133; N Pos. 293,294,295,296,297,298,299,300,301,302,303,304,305,306
Seq#:133; N Pos. 307,308,309,310,311,312,313,314,315,316,317,318,319,320
Seq#:133; N Pos. 321,322,323,324,325,326,327,328,329,330,331,332,333,334
Seq#:133; N Pos. 335,336,337,338,339,340,341,342,343,344,345,346,347,389
Seq#:134; N Pos. 300,311,328,347,372,378,396,399,408,409,410
Seq#:139; Xaa Pos. 32,33,34,35,36,37,38,39
Seq#:143; Xaa Pos. 8,23
Seq#:146; Xaa Pos. 19
Seq#:148; Xaa Pos. 23,24,25,26,27,28,29,30,31,76,92
Seq#:150; Xaa Pos. 20
Seq#:168; Xaa Pos. 16,17,18,19,20,21,22,23,24,25,26
Seq#:173; Xaa Pos. 26
Seq#:174; Xaa Pos. 129,134
Seq#:179; Xaa Pos. 21,53
Seq#:180; Xaa Pos. 4,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40
Seq#:180; Xaa Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55
Seq#:185; Xaa Pos. 23,24
Seq#:188; Xaa Pos. 5,11,57,58,59
Seq#:190; Xaa Pos. 2,26,27
Seq#:192; Xaa Pos. 27
Seq#:193; Xaa Pos. 37,38
Seq#:203; Xaa Pos. 4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24
Seq#:203; Xaa Pos. 25,26,27,28,29,30,31,32
Seq#:204; Xaa Pos. 4,5
Seq#:206; Xaa Pos. 60
Seq#:207; Xaa Pos. 56,62
Seq#:209; Xaa Pos. 81
Seq#:213; Xaa Pos. 6
Seq#:217; Xaa Pos. 5
Seq#:229; Xaa Pos. 42,91
Seq#:241; Xaa Pos. 7,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38
Seq#:241; Xaa Pos. 39

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L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:300
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:600
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:360
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:420
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:540
L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:720
L:517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:840
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:900
L:577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:180
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:300
L:583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:360
L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:300
L:698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:360
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:600
L:762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:120
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:300
L:1286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:180
L:1288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:240
L:1290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:300
L:1292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:360
L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:420
L:1296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:480
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:120
L:1563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:60
L:1565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:120
L:1567 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:180
L:1569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:240
L:1592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:60
L:1612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:660
L:1629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60
L:1734 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:1738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120
L:1773 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:360
L:1955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:60
L:1959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:180
L:1961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:240
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:1986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:60
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:120
L:2167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:600
L:2214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:180

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L:2394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0

L:2396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:60